



A.D. 1848 N^o 12,187.

S P E C I F I C A T I O N

OF
REAR ADMIRAL SIR HENRY HART.

OF
APPARATUS FOR VENTILATING CHIMNIES.
OF

L O N D O N :

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY :

PUBLISHED AT THE QUEEN'S PRINTING OFFICE, EAST HARDING STREET,
NEAR FLEET STREET.

1854.



A.D. 1848 N° 12,187.

Apparatus for Ventilating Chimnies.

HART'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, Rear-Admiral Sir HENRY HART, Commissioner of Greenwich Hospital, send greeting.

5 **WHEREAS** Her present most Excellent Majesty Queen Victoria, by Her Royal Letters Patent under the Great Seal of the United Kingdom of Great Britain and Ireland, bearing date at Westminster, the Thirteenth day of June, in the eleventh year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Sir Henry Hart, my exors, admors, and assigns, Her especial licence, full power, sole privilege and authority, that
10 I, the said Sir Henry Hart, my exors, admors, and assigns, or such others as I, the said Sir Henry Hart, my exors, admors, or assigns, should at any time agree with, and no others, from time to time and at all times during the term of years therein expressed, should and lawfully might make, use, exercise, and vend, within England, Wales, and the Town of Berwick upon Tweed,
15 my Invention of "IMPROVEMENTS IN APPARATUS FOR PREVENTING WHAT ARE CALLED SMOKEY CHIMNIES;" in which said Letters Patent is contained a proviso that I, the said Sir Henry Hart, shall cause a particular description of the nature of my said Invention, and in what manner the same is to be performed, by an instrument in writing under my hand and seal, to be inrolled in Her
20 said Majesty's High Court of Chancery within six calendar months next and immediately after the date of the said in part recited Letters Patent, as in and by the same, reference being thereunto had, will more fully and at large appear.

Hart's Improvements in Apparatus for Preventing Smokey Chimnies.

NOW KNOW YE, that in compliance with the said proviso, I, the said Sir Henry Hart, do hereby declare that the nature of my said Invention, and the manner in which the same is to be performed, are fully described and ascertained in and by the following statement thereof, reference being had to the Drawing hereunto annexed, and to the figures and letters marked thereon, 5 that is to say:—

My Invention consists of employing a wheel, put in motion by the wind, so as to cause the air to be withdrawn from a chimney or flue, the wheel being caused to move into position by an arrow or vane. And in order that my Invention may be most fully understood and readily carried into effect, I will 10 proceed to describe the means pursued by me.

DESCRIPTION OF THE DRAWING.

Figure 1 shows an apparatus combined according to my Invention. Figure 2 is a section thereof. *a* is a wheel, moving on an axis *b*, which is horizontal, or as nearly so as may be; part of the wheel rises above the chimney pot, so 15 that the wind in passing may act on the upper floats, and cause the wheel to rotate, and the wheel will be caused to come before the wind by the aid of the arrow *c* or other suitable vane, the upper part of the chimney pot turning on a vertical axis, as is well understood. *d* is a projecting guard, to prevent the wind being forced down the chimney. 20

Figure 3 shows another arrangement, somewhat differing from the preceding. Figure 4 shews a section of the same. In this arrangement there is an opening at the side of the rotating portion of the pot, the upper part of the wheel being covered, the wind in this case acting on the under portion of the wheel, and driving it round, as indicated. In this arrangement, *c* is a top to prevent down 25 drafts when the chimney is in a low position, surrounded by higher buildings; but I have not had the upper plate *e*, when on chimnies, otherwise circumstanced. Figure 5 shows another arrangement, also somewhat differing from the preceding. Figure 6 shows a section thereof. In this arrangement the wind acts on the upper part of the wheel, as indicated. It may be remarked, 30 that when there is no fire the working of the apparatus will tend to keep an upward draft in the chimney, and thus ventilate the apartment with which the chimney communicates.

Having thus described the nature of my Invention, and the manner in which the same is to be performed, I would have it understood that I do not confine 35 myself to the details shown, so long as the peculiar character of my Invention be retained; but what I claim is, the employment of a wheel put in motion.

A. D. 1848. June 13. N^o 12187.
HART'S SPECIFICATION.

FIG. 1.

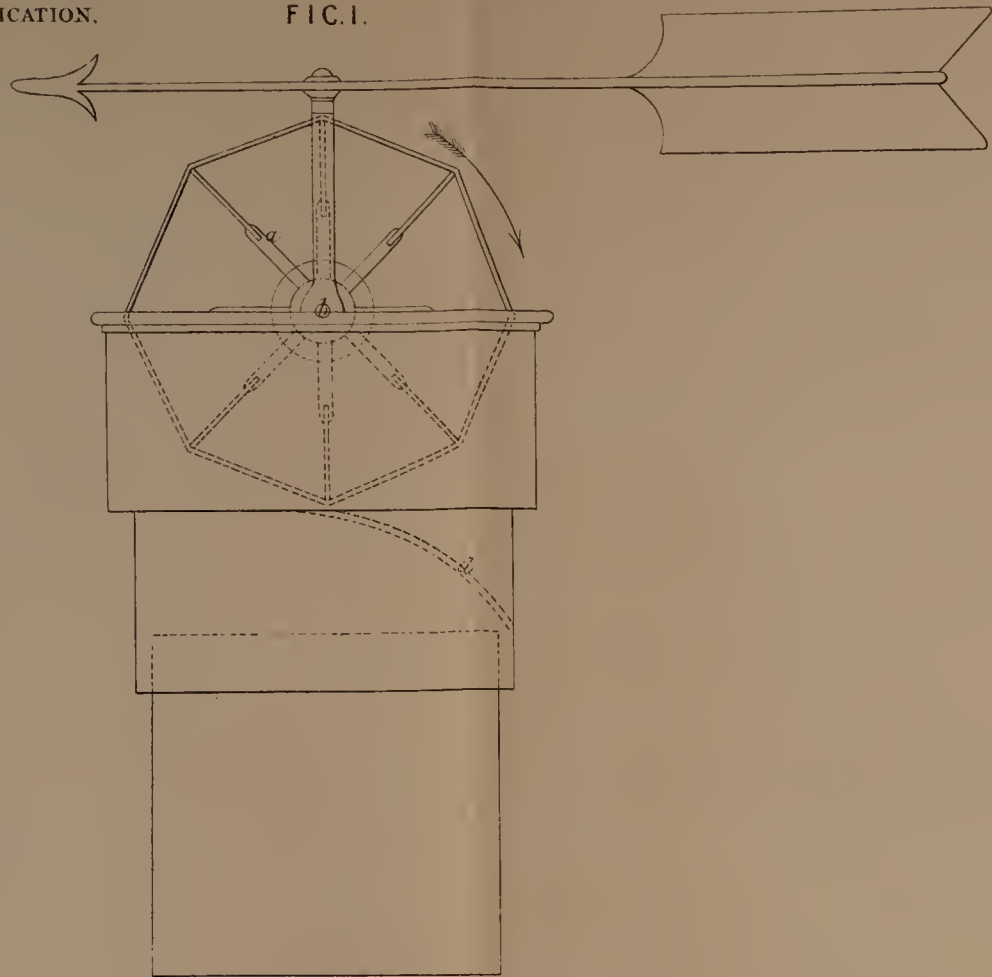


FIG. 2.

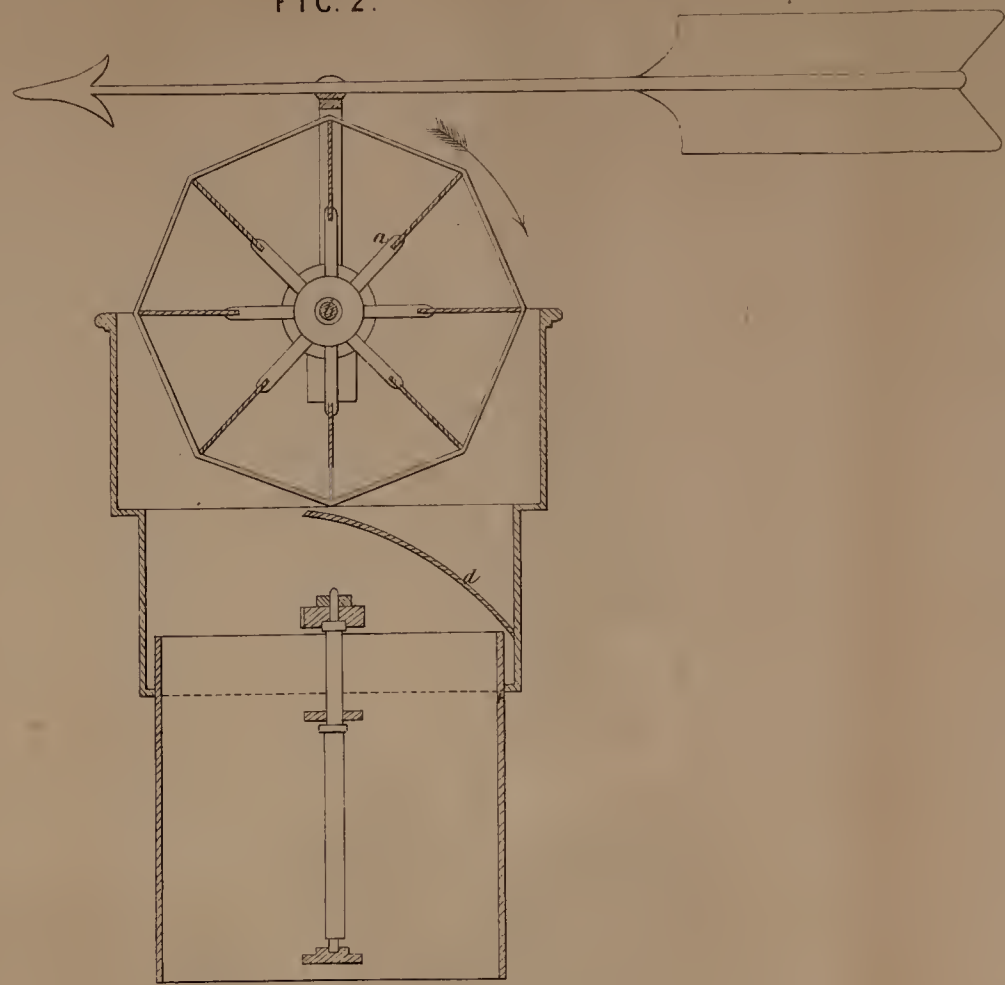


FIG. 3.

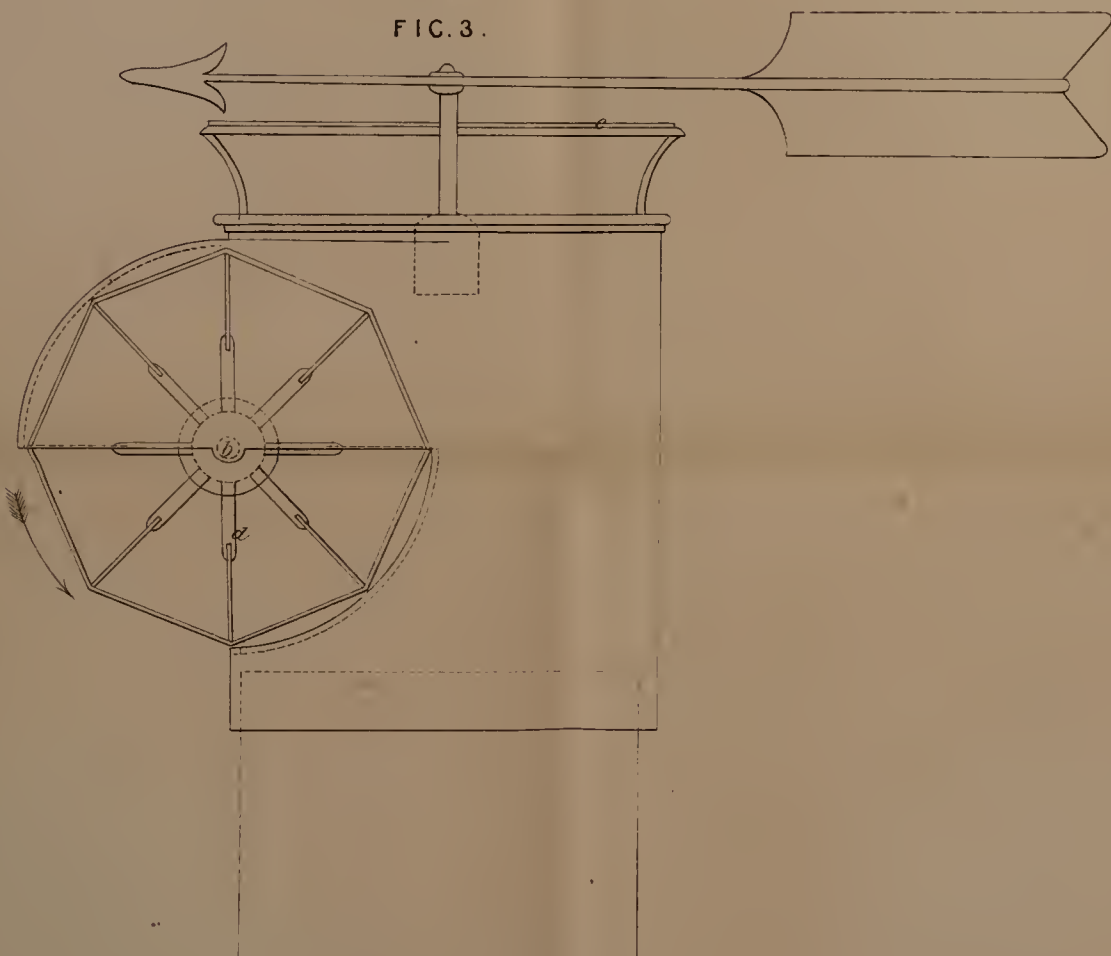


FIG. 4.

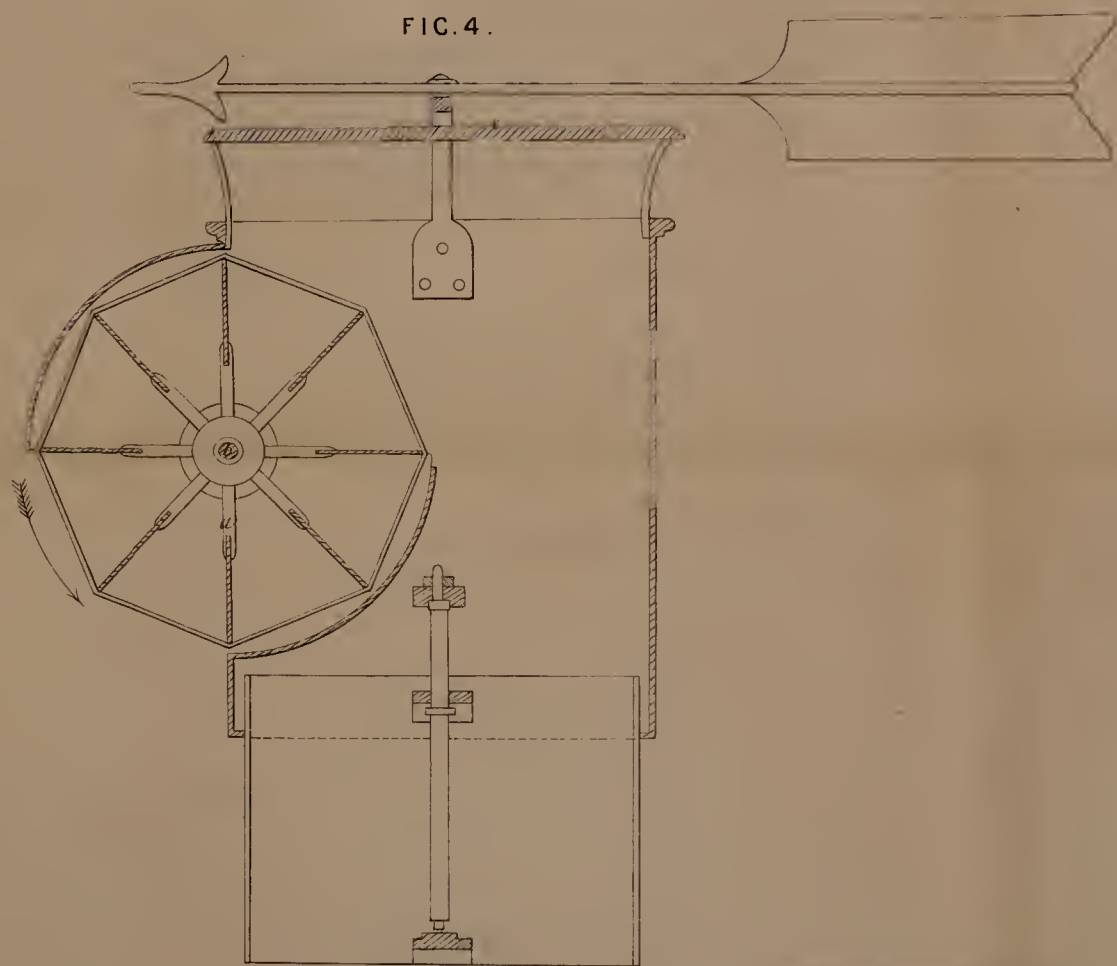


FIG. 5.

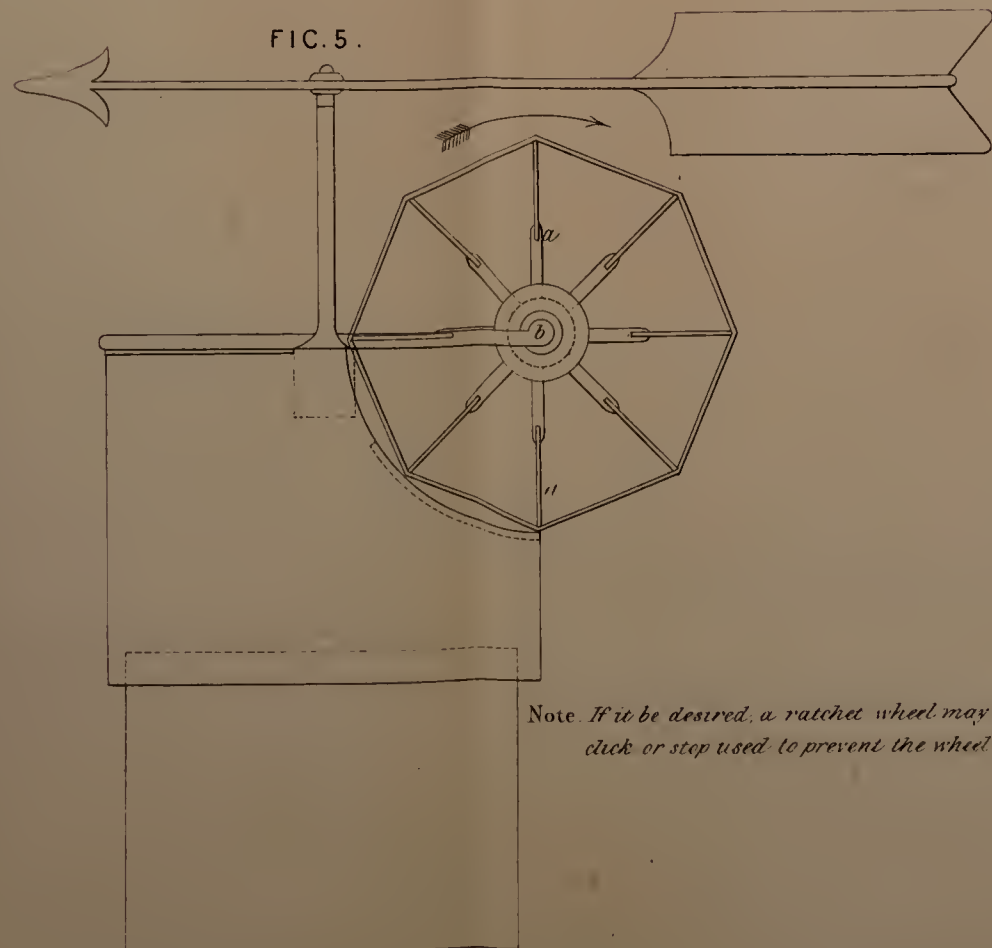
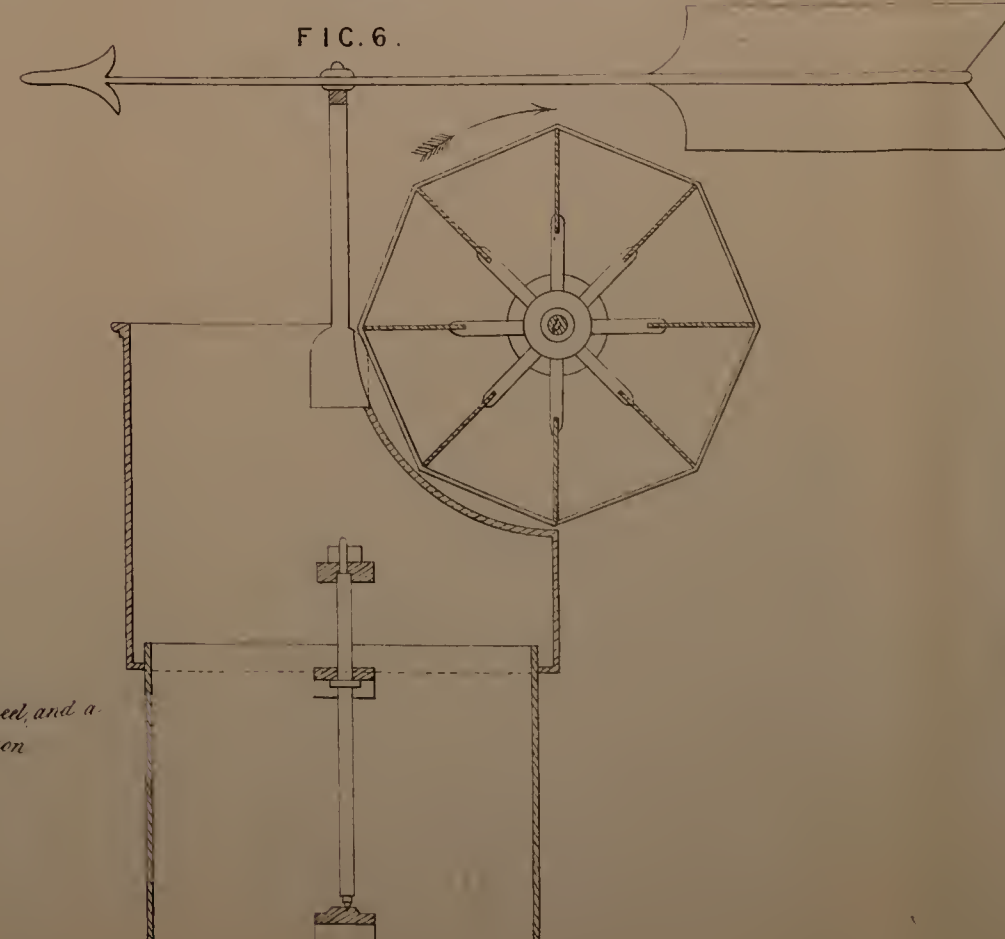


FIG. 6.



Note. If it be desired, a ratchet wheel may be put on the axis of the wheel, and a click or stop used to prevent the wheel turning in the wrong direction.

Hart's Improvements in Apparatus for Preventing Smokey Chimnies.

by the wind, so as to cause the air to be withdrawn from a chimney or flue, the wheel being caused to move into position by a vane or arrow.

In witness whereof, I, the said Sir Henry Hart, have hereunto set
my hand and seal, this Thirteenth day of December, in the year of our
5 Lord One thousand eight hundred and forty-eight.

HENRY (L.S.) HART.

10 **AND BE IT REMEMBERED**, that on the Thirteenth day of December, in the year of our Lord 1848, the aforesaid Sir Henry Hart came before our said Lady the Queen in Her Chancery, and acknowledged the Specification aforesaid, and all and everything therein contained and specified, in form above written. And also the Specification aforesaid was stamped according to the tenor of the Statute made for that purpose.

Enrolled the Thirteenth day of December, in the year of our Lord One thousand eight hundred and forty-eight.

LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1854.

